

Roundup Abstract

Update on the OSSE Testbed

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Abstract

The primary objective of the OSSE Testbed is to enable a hierarchy of experiments to: (1) determine the potential impact of proposed space-based, sub-orbital, and in situ observing systems on analyses and forecasts, (2) evaluate trade-offs in observing system design, (3) assess proposed methodology for assimilating new observations in coordination with the Joint Center for Satellite Data Assimilation (JCSDA), and (4) provide guidance for operational observation deployment and construction of national observation networks meeting weather, ocean and climate needs. Sub-objectives are to define both the advantages and limitations of a hierarchy of OSSEs that includes rapid prototyping of instrument or data assimilation concepts, as well as the more rigorous “full” OSSEs, and to generate an OSSE/OSE process that invites participation by the broad community of agency planners, research scientists and operational centers. Substantial progress has been made on all of these objectives, and during the last year several new capabilities have been implemented and OSSEs have been conducted for several proposed observing systems. At the workshop, we will summarize recent accomplishments and experiments that have been performed.